

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P628485

Luminaire Tested: **IFLD-M-SA4B-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628485
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

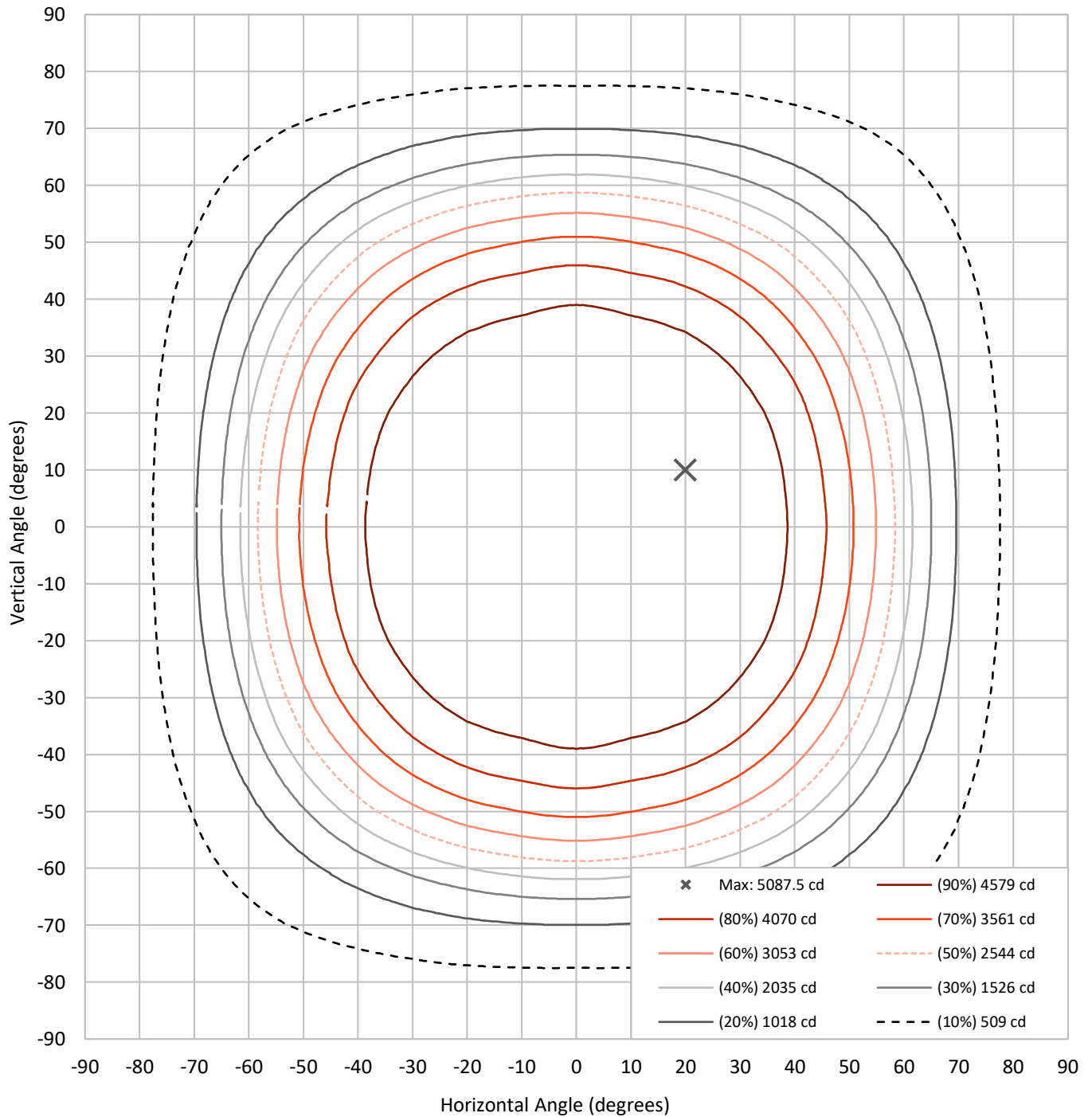
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15607.8 lumens	Max Intensity:	5087.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	94.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	9577.3 lumens	Field Lumens:	11481.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	166.1		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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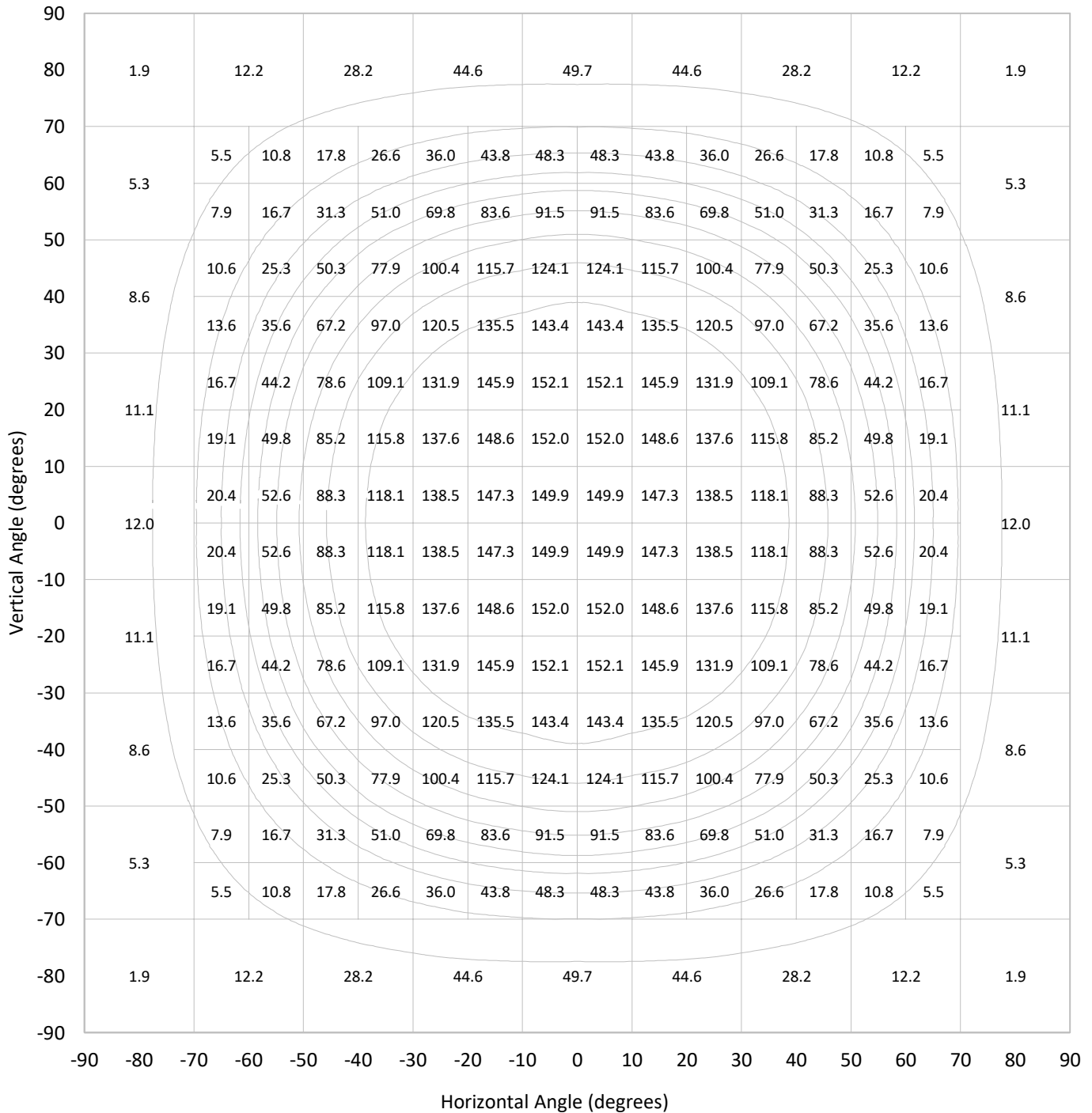
Iso-Candela Plot





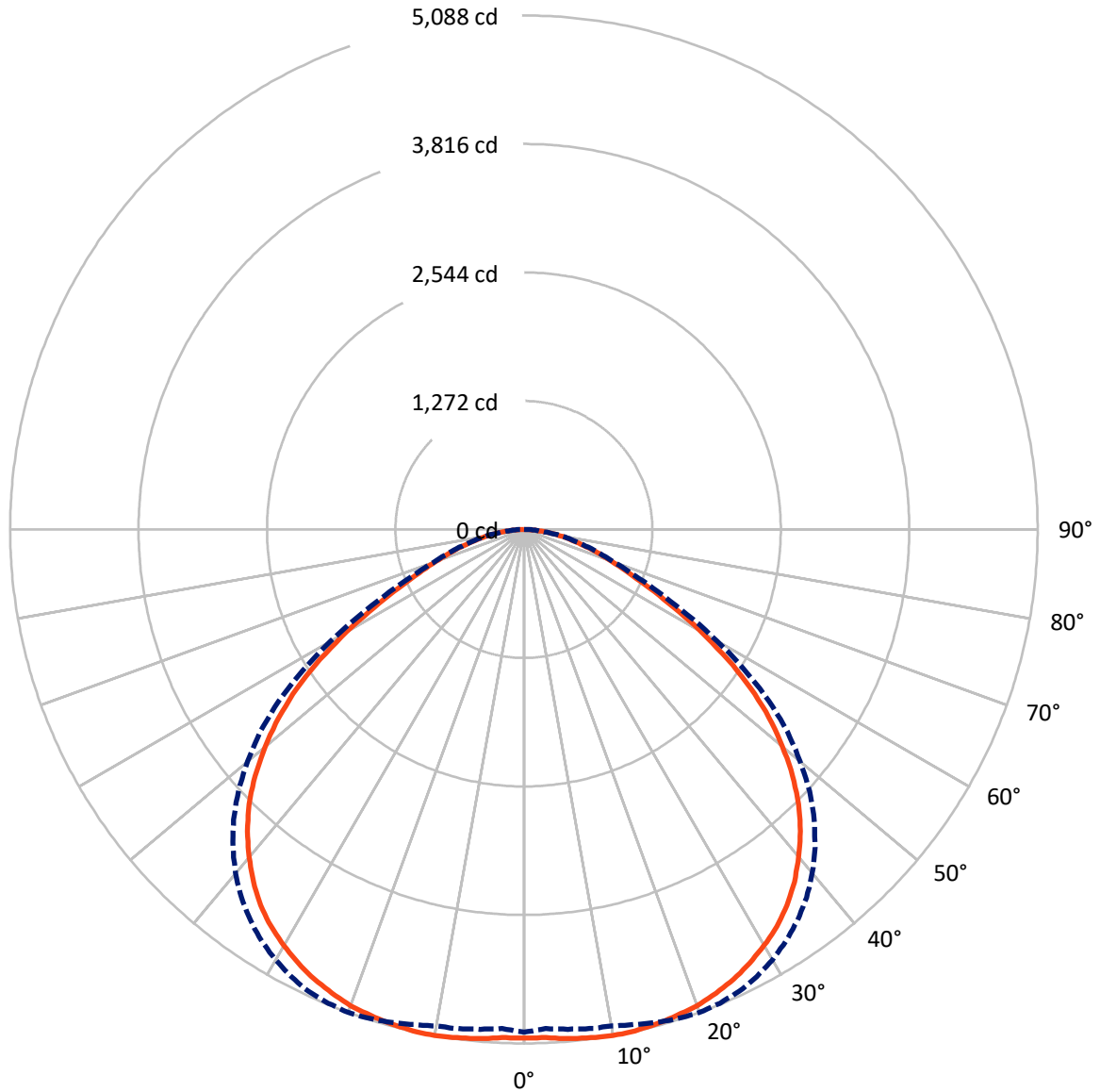
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Lumen Table



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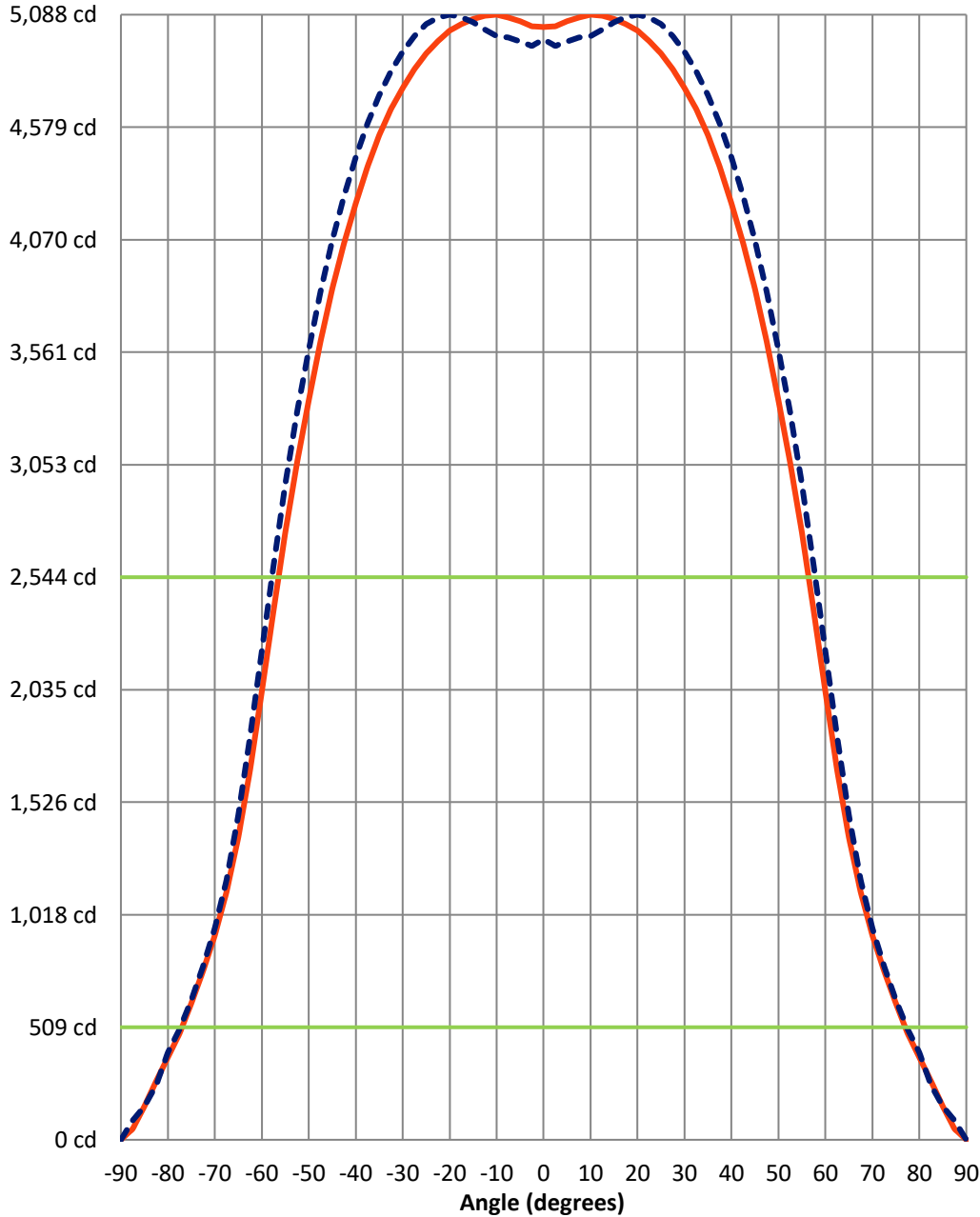
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 9577.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 11481.5
 Efficiency: 73.6%

Spill:
 Lumens: 4126.3
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	41.1	44.3	46.0	47.6	49.3	50.9	52.6	50.9	49.3	49.3	47.6
85°	110.0	113.3	115.0	126.4	137.9	144.5	152.7	151.1	151.1	149.4	147.8
82.5°	220.1	229.9	238.1	249.6	256.2	266.0	272.6	267.7	264.4	257.8	252.9
80°	390.8	394.1	395.8	397.4	389.2	387.6	384.3	379.3	372.8	364.6	356.4
77.5°	497.6	500.9	504.2	500.9	499.2	497.6	492.7	487.7	481.2	474.6	464.7
75°	658.5	658.5	658.5	653.6	650.3	645.4	637.2	629.0	617.5	604.3	589.5
72.5°	829.3	827.7	826.0	816.2	808.0	798.1	786.6	776.8	763.6	748.8	729.1
70°	1008.3	1011.6	1013.2	1000.1	990.2	977.1	962.3	944.3	924.6	903.2	875.3
67.5°	1254.6	1251.3	1248.1	1230.0	1216.9	1198.8	1177.5	1151.2	1121.6	1088.8	1049.4
65°	1560.1	1565.0	1555.2	1537.1	1512.5	1482.9	1450.1	1412.3	1367.9	1318.7	1262.8
62.5°	1929.6	1937.8	1926.3	1903.3	1872.1	1832.7	1786.7	1732.5	1671.8	1602.8	1533.8
60°	2350.0	2348.3	2327.0	2295.8	2254.7	2205.5	2154.6	2095.4	2026.5	1946.0	1862.2
57.5°	2735.9	2732.6	2706.3	2675.1	2634.1	2581.5	2527.3	2464.9	2392.7	2307.3	2210.4
55°	3082.4	3079.1	3052.8	3020.0	2977.3	2924.7	2875.5	2816.4	2745.7	2655.4	2552.0
52.5°	3389.5	3391.1	3368.1	3332.0	3286.0	3235.1	3187.5	3128.4	3061.0	2970.7	2870.6
50°	3671.9	3670.3	3645.7	3612.8	3570.1	3520.9	3473.2	3414.1	3343.5	3256.5	3159.6
47.5°	3934.7	3931.4	3903.5	3867.4	3823.0	3780.3	3736.0	3683.4	3609.5	3522.5	3425.6
45°	4154.7	4148.2	4120.3	4085.8	4043.1	4005.3	3965.9	3926.5	3847.7	3767.2	3675.2
42.5°	4343.6	4342.0	4314.0	4279.6	4236.9	4204.0	4167.9	4118.6	4052.9	3979.0	3888.7
40°	4524.2	4511.1	4483.2	4450.3	4410.9	4383.0	4346.9	4297.6	4233.6	4161.3	4074.3
37.5°	4658.9	4660.5	4631.0	4594.9	4560.4	4534.1	4501.2	4455.3	4399.4	4328.8	4241.8
35°	4787.0	4778.8	4754.1	4722.9	4691.7	4662.2	4627.7	4588.3	4542.3	4476.6	4394.5
32.5°	4870.7	4882.2	4852.7	4819.8	4801.8	4778.8	4742.6	4701.6	4660.5	4594.9	4521.0
30°	4962.7	4952.8	4929.9	4901.9	4888.8	4874.0	4842.8	4803.4	4755.8	4696.7	4627.7
27.5°	5026.7	5021.8	4993.9	4967.6	4961.1	4947.9	4923.3	4888.8	4841.2	4783.7	4719.7
25°	5054.7	5057.9	5031.7	5016.9	5016.9	5008.7	4989.0	4959.4	4911.8	4859.2	4796.8
22.5°	5067.8	5064.5	5046.5	5043.2	5051.4	5044.8	5036.6	5010.3	4967.6	4924.9	4872.4
20°	5076.0	5053.0	5036.6	5049.7	5059.6	5057.9	5051.4	5035.0	5015.3	4979.1	4933.1
17.5°	5057.9	5043.2	5023.5	5043.2	5064.5	5066.2	5059.6	5049.7	5044.8	5021.8	4980.8
15°	5013.6	5002.1	5005.4	5025.1	5049.7	5057.9	5062.9	5074.4	5067.8	5049.7	5013.6
12.5°	4984.1	4969.3	4984.1	5003.8	5016.9	5021.8	5061.2	5082.6	5082.6	5066.2	5043.2
10°	4975.8	4946.3	4966.0	4984.1	4990.6	5020.2	5053.0	5076.0	5087.5	5074.4	5044.8
7.5°	4959.4	4939.7	4947.9	4956.1	4993.9	5015.3	5033.3	5057.9	5074.4	5072.7	5046.5
5°	4951.2	4926.6	4929.9	4964.3	4990.6	5005.4	5012.0	5033.3	5057.9	5062.9	5043.2
2.5°	4929.9	4918.4	4943.0	4946.3	4966.0	4977.5	4984.1	5003.8	5035.0	5046.5	5038.2
0°	4918.4	4901.9	4885.5	4898.7	4931.5	4956.1	4966.0	4995.5	5031.7	5043.2	5025.1



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	46.0	44.3	42.7	41.1	42.7	42.7	42.7	41.1	42.7	41.1	41.1
85°	142.9	136.3	131.4	124.8	118.2	113.3	106.7	100.2	98.5	96.9	93.6
82.5°	246.3	238.1	229.9	220.1	210.2	198.7	187.2	174.1	170.8	167.5	162.6
80°	346.5	335.0	323.5	312.0	302.2	290.7	277.5	262.8	252.9	244.7	234.8
77.5°	451.6	435.2	418.8	399.1	387.6	376.1	362.9	348.1	333.4	320.2	305.4
75°	571.5	553.4	537.0	517.3	495.9	474.6	453.2	433.5	412.2	392.5	372.8
72.5°	704.5	678.2	651.9	627.3	601.0	574.8	546.8	520.6	494.3	468.0	440.1
70°	844.1	811.2	778.4	745.6	711.1	676.6	643.7	610.9	578.1	543.6	512.4
67.5°	1008.3	970.5	927.8	881.9	830.9	786.6	743.9	704.5	665.1	625.7	586.3
65°	1213.6	1161.0	1103.6	1041.1	982.0	922.9	860.5	801.4	755.4	709.4	665.1
62.5°	1466.5	1392.6	1312.1	1231.6	1159.4	1082.2	1009.9	932.8	860.5	794.8	740.6
60°	1768.6	1668.5	1569.9	1466.5	1366.3	1261.2	1169.2	1074.0	983.7	903.2	824.4
57.5°	2102.0	1985.4	1867.2	1740.7	1604.4	1481.3	1356.4	1231.6	1124.9	1018.2	929.5
55°	2440.3	2317.1	2184.1	2041.2	1891.8	1734.2	1565.0	1425.4	1279.3	1154.5	1039.5
52.5°	2762.2	2634.1	2496.1	2364.8	2185.8	2005.1	1819.5	1635.6	1464.8	1305.5	1166.0
50°	3049.5	2924.7	2791.7	2639.0	2473.1	2281.0	2074.1	1867.2	1665.2	1478.0	1303.9
47.5°	3312.3	3190.8	3057.8	2905.0	2754.0	2540.5	2331.9	2103.6	1878.7	1663.5	1459.9
45°	3558.6	3435.5	3297.5	3151.4	2977.3	2786.8	2571.7	2341.8	2100.4	1859.0	1624.1
42.5°	3782.0	3658.8	3519.2	3368.1	3195.7	3006.9	2798.3	2566.7	2323.7	2060.9	1803.1
40°	3977.4	3857.5	3722.8	3565.2	3404.3	3205.6	3000.3	2780.2	2529.0	2264.6	1980.5
37.5°	4148.2	4036.5	3903.5	3747.5	3576.7	3399.3	3187.5	2967.4	2740.8	2453.4	2162.8
35°	4299.3	4195.8	4059.5	3911.7	3744.2	3557.0	3358.3	3143.2	2898.5	2629.1	2346.7
32.5°	4430.6	4325.5	4200.7	4052.9	3890.4	3714.6	3511.0	3294.2	3062.7	2788.4	2481.4
30°	4542.3	4440.5	4322.2	4182.7	4026.7	3852.6	3653.9	3435.5	3199.0	2926.4	2622.6
27.5°	4639.2	4542.3	4427.3	4297.6	4148.2	3980.7	3780.3	3560.3	3318.9	3056.1	2752.3
25°	4722.9	4629.3	4522.6	4399.4	4251.6	4087.4	3898.6	3668.7	3427.3	3162.9	2862.3
22.5°	4798.5	4708.2	4601.4	4481.5	4346.9	4182.7	3992.2	3763.9	3519.2	3258.1	2962.5
20°	4865.8	4782.1	4677.0	4553.8	4419.1	4253.3	4064.4	3847.7	3601.3	3345.1	3052.8
17.5°	4920.0	4846.1	4741.0	4611.3	4476.6	4315.7	4131.8	3933.0	3671.9	3419.0	3128.4
15°	4957.8	4885.5	4790.3	4658.9	4527.5	4368.2	4184.3	3979.0	3736.0	3478.2	3190.8
12.5°	4984.1	4906.9	4818.2	4696.7	4565.3	4407.6	4228.6	4026.7	3790.2	3530.7	3245.0
10°	4990.6	4920.0	4831.3	4722.9	4594.9	4442.1	4266.4	4066.1	3834.5	3571.8	3289.3
7.5°	4993.9	4926.6	4846.1	4742.6	4616.2	4468.4	4294.3	4097.3	3867.4	3606.3	3322.2
5°	4992.3	4928.2	4856.0	4755.8	4629.3	4483.2	4312.4	4118.6	3890.4	3629.2	3346.8
2.5°	4987.3	4929.9	4862.5	4765.6	4644.1	4499.6	4330.5	4143.2	3915.0	3648.9	3366.5
0°	5000.5	4951.2	4865.8	4762.4	4647.4	4499.6	4328.8	4146.5	3918.3	3647.3	3364.8



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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	41.1	39.4	39.4	37.8	36.1	34.5	31.2	29.6	26.3	21.3	16.4
85°	88.7	83.8	78.8	75.5	72.3	69.0	64.0	59.1	52.6	42.7	32.8
82.5°	156.0	146.2	136.3	124.8	115.0	105.1	96.9	88.7	78.8	64.0	49.3
80°	223.3	208.6	193.8	177.4	162.6	146.2	131.4	118.2	105.1	85.4	65.7
77.5°	290.7	271.0	249.6	229.9	208.6	187.2	165.9	147.8	128.1	105.1	82.1
75°	353.1	330.1	310.4	282.5	256.2	228.3	200.3	175.7	151.1	123.2	98.5
72.5°	415.5	385.9	358.0	331.7	302.2	267.7	236.5	205.3	174.1	141.2	111.7
70°	477.9	441.7	407.3	376.1	343.2	308.7	271.0	234.8	197.1	157.7	123.2
67.5°	541.9	500.9	461.5	422.0	384.3	344.9	305.4	264.4	220.1	174.1	136.3
65°	612.5	561.6	514.0	469.7	425.3	382.6	338.3	294.0	244.7	192.1	147.8
62.5°	683.2	627.3	571.5	515.6	466.4	418.8	371.1	321.9	267.7	211.8	159.3
60°	758.7	694.6	630.6	568.2	507.4	454.9	402.3	349.8	292.3	229.9	170.8
57.5°	842.4	765.3	693.0	622.4	553.4	491.0	433.5	377.7	313.7	248.0	183.9
55°	937.7	842.4	757.1	678.2	602.7	527.1	464.7	407.3	338.3	266.0	198.7
52.5°	1037.9	927.8	824.4	735.7	655.2	569.8	494.3	430.3	362.9	284.1	211.8
50°	1154.5	1014.9	899.9	791.5	701.2	612.5	525.5	456.5	387.6	305.4	225.0
47.5°	1274.3	1120.0	975.5	857.2	750.5	653.6	561.6	479.5	410.5	325.2	238.1
45°	1413.9	1220.1	1060.9	921.3	798.1	696.3	597.8	504.2	430.3	344.9	251.3
42.5°	1548.6	1338.4	1149.5	991.9	852.3	737.3	630.6	530.4	450.0	364.6	262.8
40°	1707.9	1456.6	1234.9	1059.2	906.5	776.8	663.4	558.3	468.0	382.6	274.2
37.5°	1860.6	1576.5	1338.4	1133.1	959.0	816.2	696.3	584.6	484.4	400.7	289.0
35°	2011.7	1709.5	1436.9	1202.1	1013.2	860.5	729.1	609.3	500.9	415.5	302.2
32.5°	2156.2	1834.3	1537.1	1279.3	1072.4	901.6	758.7	632.2	517.3	428.6	315.3
30°	2290.9	1952.6	1635.6	1358.1	1126.5	939.3	786.6	655.2	537.0	440.1	328.4
27.5°	2414.0	2067.5	1734.2	1432.0	1177.5	973.8	816.2	676.6	553.4	451.6	339.9
25°	2525.7	2171.0	1824.5	1499.3	1223.4	1011.6	844.1	697.9	568.2	461.5	349.8
22.5°	2630.8	2266.2	1906.6	1566.7	1279.3	1049.4	870.4	717.6	583.0	471.3	359.6
20°	2722.8	2353.3	1985.4	1634.0	1328.5	1083.8	893.4	735.7	596.1	477.9	369.5
17.5°	2796.7	2430.4	2056.0	1693.1	1371.2	1113.4	913.1	752.1	607.6	486.1	376.1
15°	2862.3	2496.1	2115.1	1744.0	1409.0	1138.0	931.1	765.3	617.5	491.0	384.3
12.5°	2918.2	2552.0	2166.1	1788.3	1441.8	1159.4	945.9	775.1	625.7	495.9	389.2
10°	2964.2	2596.3	2208.7	1822.8	1468.1	1175.8	957.4	785.0	632.2	500.9	394.1
7.5°	2998.6	2629.1	2239.9	1852.4	1489.5	1187.3	967.3	791.5	638.8	504.2	402.3
5°	3024.9	2657.1	2264.6	1872.1	1505.9	1203.7	978.7	799.7	645.4	507.4	402.3
2.5°	3044.6	2680.1	2284.3	1888.5	1519.0	1200.4	978.7	798.1	645.4	507.4	400.7
0°	3041.3	2681.7	2282.6	1888.5	1519.0	1197.2	978.7	796.5	645.4	507.4	400.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.5	8.2	3.3	0.0
85°	24.6	16.4	8.2	0.0
82.5°	36.1	23.0	11.5	0.0
80°	47.6	31.2	14.8	0.0
77.5°	60.8	39.4	19.7	0.0
75°	72.3	46.0	23.0	0.0
72.5°	83.8	54.2	26.3	0.0
70°	93.6	60.8	29.6	0.0
67.5°	103.5	69.0	34.5	0.0
65°	111.7	75.5	37.8	0.0
62.5°	118.2	83.8	41.1	0.0
60°	126.4	90.3	44.3	0.0
57.5°	133.0	95.2	47.6	0.0
55°	139.6	98.5	50.9	0.0
52.5°	146.2	103.5	54.2	0.0
50°	152.7	108.4	57.5	0.0
47.5°	159.3	111.7	59.1	0.0
45°	169.1	116.6	62.4	0.0
42.5°	177.4	119.9	65.7	0.0
40°	185.6	123.2	67.3	0.0
37.5°	193.8	126.4	70.6	0.0
35°	202.0	129.7	72.3	0.0
32.5°	208.6	133.0	73.9	0.0
30°	215.1	136.3	75.5	0.0
27.5°	221.7	137.9	77.2	0.0
25°	226.6	141.2	78.8	0.0
22.5°	231.5	142.9	80.5	0.0
20°	234.8	144.5	82.1	0.0
17.5°	239.8	146.2	83.8	0.0
15°	241.4	147.8	87.0	0.0
12.5°	244.7	149.4	87.0	0.0
10°	246.3	151.1	87.0	0.0
7.5°	249.6	151.1	87.0	0.0
5°	248.0	151.1	87.0	0.0
2.5°	248.0	151.1	87.0	0.0
0°	246.3	151.1	87.0	0.0

(END OF REPORT)